GOVERNMEND OF ANDHRA PRADESH DEPARTMENT OF MINES AND GEOLOGY

From

Sri P.Prakash Kumar, M.St.,
Deputy Director of Mines & Geology (FAC),
CHITTOOR.

Ys.Sri Vaishnavi Granites,

Proptx:Smt.Edavalli Akhila,

Vasista Apurva, 501,

#8-2-350, Banjara Hills Road,

o.3, Hyderabad-500034.

Lr.No. 122/MMP/BG/CTR/2022/dt: 27-01-2022

Sir,

Sub: Mines & Minerals - Application of Modified Mining Plan filed by M/s.Sri Vaishnavi Granites, Proptx:Smt.Edavalli Akhila for Black Granite over an extent of 4.820 Hectares in Compartment No.227 of Basavapalli RF, Chittapara Beat of Chittoor West Division, Gudipala Mandal in Chittoor District - Approved - Regarding.

Ref: 1. Lr.No.2629/MP/BG/CTR/2021, dated:25.10.2021 of the Deputy Director of Mines and Geology, Chittoor.

2. Draft Modified Mining Plan submitted on 17.01.2022 filed by M/s.Sri Vaishnavi Granites, Proptx:Smt.Edavalli Akhila.

3. This office Letter No.122/MMP/BG/CTR/2022, dt:20.01.2022.

4. Letter dated:27.01.2022 along with 5 sets of fair Modified Mining Plan from the Applicant/RQP.

In exercise of the powers conferred by the Government of Andhra Pradesh, through the reference 1st cited and in view of Circular Memo issued by the Director of Mines & Geology, Ibrahimpatnam. I hereby approve the Modified Mining Plan for the period of Five (05) years in respect of precise area for Black Granite over an extent of 4.820 Hectares in Compartment No.227 of Basavapalli RF, Chittapara Beat of Chittoor West Division, Gudipala Mandal in Chittoor District filed by M/s.Sri Vaishnavi Granites, Proptx:Smt.Edavalli Akhila under Rule 16 (3) of Granite Conservation Development Rules, 1999.

This approval is subject to the following conditions.

- 1. This Modified Mining Plan is approved without prejudice to any other laws applicable to the quarry lease from time to time whether such laws are made by the Central Government, State Government or any other authority.
- 2. It is clarified that this approval of the Modified Mining Plan does not in any way imply the approval of the Government in terms of any other provisions of the Mines and Minerals (Development and Regulation) Amendment Act, 2015 and any other laws including the Forest Conservation Act, 1980 and APMMC Rules, 1966.
- 3. It is further clarified that the approval of the modified mining plan is subject to the provisions of the Forest Conservation Act, 1980 and Forest conservation rules, 2003 and other relevant statues, orders and guidelines as may be applicable to the lease area from time to time.
- 4. This office has not undertaken verification of the quarry lease boundary on the ground and does not undertake any responsibility regarding correctness of the boundaries of the lease hold should on the ground with reference to the lease map and other plans furnished by the applicant.

- 5. The Q.L. area is as shown on the statutory plans by the applicant is certified by the competent authority with GPS readings of the boundary points of the lease and this office has not under taken the ground truth verification of the quarry lease boundary and pillars on the ground.
- 6. The approval authority does not owe responsibility with regard to recovery factor of Black Granite and assessment of reserves, any erroneous certification made by the R.Q.P. if any, since the evaluation is done on random basis.
- 7. The Modified Mining Plan is approved subject to strictly adhering to the relevant Regulations of MMR, 1961 and obtaining prior permission from the Director General Mines Safety whenever and wherever it is required.
- 8. The applicant/lessee shall safeguard the structures, public buildings, roads, railway line, electric line and water bodies exists if any as per regulations 109 & 127 of MMR, 1961.
- 9. The approval authority does not owe responsibility with regard to erroneous certification made by the R.Q.P if any and approval is tentative subject to modification of new findings at a later date as per the provisions of Rules inforce, since the evaluation is done on random basis.
- 10. The proposals contained in the approved Modified Mining Plan shall be applicable from the date of execution of the lease and for the mining activities to be carried out within the lease hold area as per the approved mining plan only.

If anything is found to be concealed as required by the Mines Act in the contents of the approved Mining Plan and the proposal for rectification has not been made or if at later stage the information furnished in the document to be incorrect or misrepresentation of facts, the approval shall be revoked with immediate effect.

NB: This approval become null and void if it found grossly inequitable, made under a mistake of fact, owing to the mis-representation, fraud or in excess of authority. The applicant is not liable to claim any lease held rights till the execution of the lease deed.

Encl: (2 copies of A.M.M.P.)

Deputy Director of Mines & Geology (FAC

Yours faithfully,

Copy submitted to:

- 1) The Director of Mines & Geology, Ibrahimpatnam for favour of kind information.
- 2) The Regional Controller of Mines, IBM, Sultan Bazar, Hyderabad for information.
- 3) The Director of Mines Safety, Hyderabad for favour of kind information.

Copy to the Asst. Director of Mines & Geology, Chittoor along with A.M.M.P and if any variations noticed in the A.M.M.P the same shall be brought to the notice of the Undersigned immediately for taking further necessary action.

MODIFIED MINING PLAN INCLUDING PROGRESSIVE MINE CLOSURE PLAN FOR BLACKGRANITE

(Submitted Under Rule 16 (3) of Granita Conservation & Development Rules, 1999)

Calegory of Land Forest Area Compartment No. : 227 Basivinalli R.I Chittapara Bea Chittoo Wes Rang Chittoor West Division CHITTA Schra Pradesh

State

Category of Mine : A Category Other Than Fully Mechanized

APPLICANT

M/s Sri Vaishnavi Granites, Proprietor: Smt Edavalli Akhila W/o Nithin Reddy, Sri Vasista Apurva, 501, # 8-2-350,2, Banjara Hills Road No.3, HYDERABAD-500034, Ph: 9000352266, srivaishnavigranites1@gmail.com

PREPARED BY

Y.THIMMAIAH, Cell:9440053509 (RQP/DMG/AP/11/2020) 61205, Indu Fortune Fields Gardenia, 13th Phase, K.P.H.B. Colony HYDERABAD - 500085 thimmaiahy@yahoo.co.in

DECLARATION

Certified that the Oparty Lease application is filed for Black Granite, over an extent of 4.82 Hect in Compartment No. 927 of Basivipaltia. R Chittapara Beat of Chittoor West Range and Chittoor West Division, A.P. by our company and the modified mining plan is prepared by the RCP as per the guidelines, Issued by the Director of Mines & Geology, Govt. of A.P., according to various provisions under GCD Rule 1999 in full consultation with us and We understood its contents and agree to implement the same in accordance with law.

For M/s Sri Vaishnavi Granites

Achiler

Date:

Place: Hyderabad

Signature of the Applicant (Edavalli Akhila)

Mg. Partner

CERTIFICATE

Certified that the provisions of APMMC Rules 1996 & GCD Rules 1999 and the guidelines of the Director of Mines & Geology, Govt. of AP have been observed in preparation of Modified Mining Plan for applied Quarry Lease area of Black Granite, over an extent of 4.82 Hect in Compartment No. 227 of Basivipalli R.F., Chittapara Beat of Chittoor West Range and Chittoor West Exulsion. A.P. and the applicant has agreed to implement the same.

CHITTOOR

Certified that the provisions of other Acts & Regulations as applicable are observed in preparation of the modified mining plan. However if any specific permission is required, the applicant will approach all such authorities including, Forest Department & Director General of Mines Safety.

Certified further that the information furnished in Modified Mining Plan is true and correct to the best of my Knowledge.

Date: 17-01-202

Place: Hyderabad

Signature of RQP

(Y. THIMMAIAH) RQP/ DMG/ AP/11/2020

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2	D.D.M.G, Chittoor letter No. 2629/MP/BG/CTR/ 2021, Dt: 25-10-2021	Annexure- IA
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MODIFIED MINING PLAN INCLUDING PROGRESSIVE MINE CLOSURE PLAN FOR APPLIED QUARBY LEASE AFFA OF BLACK GRANITE

OVER AN EXTENT OF 4.82 PEST IN COMPARTMENT No. 227 OF BASIVIPALLI R.F., CHITTAPARA BEAT CHITTOON WEST PANGE AND CRITTOON WEST DIVISION, A.P.

(Submitted Under Rule 16 (2) of Granite Conservation & Bevelopment Rules, 1999)

DEP

INTRODUCTION:

Smt Edavalli Akhila, Proprietor of Mas Sti Vaishnavi Granites has applied for grant of quarry lease for Black Granite over an extent of 4.82 Ha i.e. 3.70 Ha for Mining, 0.80 Ha for Safety Zone and 0.32 Ha for approach road to the quarry workings in Compartment No. 227 of Basivipalli R.F., Chittapara Beat-ef Chittoor West Range and Chittoor West Division, A.P., for 20 Years (Ref: Annexure-I). The Divisional Forest Officer, Chittor West Division issued a Letter Rc. No.1968/2019/To, Dt: 26-05-2021 to submit the approved mining plan from the Competent Authority of Mines & Geology. The mining plan has prepared based on DGPS surveyed sketch, attested by the Divisional Forest Officer, Chittoor West Division and the mining plan got approved by the Dy. Director of Mines and Geology, Chittoor vide letter No. 2629/MP/BG/CTR/ 2021, Dated: 25-10-2021 (Annexure-IA). It is observed some disorder in actual extent of area used for mining & dumping purpose separately within 3.70 ha earmarked for the same. Hence the modified mining plan is prepared as per the guide lines furnished "Form-T" vide GO.Ms.No.56, Industries and Commerce (Mines-II) 30th April, 2016. The sane is submitted under Rule 16 (3) of Granite Conservation & Development Rules, 1999 for approval.

I GENERAL:

1) Name & Address of the Applicant:

M/s Sri Vaishnavi Granites, E mail: srivaishnavigranites1@gmail.com Proprietor: Smt Edavalli Akhila, W/o Nithin Reddy, Cell: 9000352266 Sri Vasista Apurva, 501, # 8-2-350, 2, Banjara Hills Road No.3, HYDERABAD-500034.

- 2) Status of the Applicant: Partner Ship Firm
- 3) Mineral(s) Which is/are included in the letter of Intent: Black Granite
- 4) Mineral(s) which is the applicant /lessee intends to mine: Black Granite

The Mining Plan / Schems is Approved subject to the conditions & stinulations indicated in the lining Plan / pproved letter

No: / 22 / 2010 / BG / CTR / 202 / Date. 27 / 01 / 2022

Deputy Director of Mir Chittoor

APPROVED

5) Name and Details of Person employed for preparation Mining Plan:

Y.Thimmaiah, Mobile: 9440053509

Address: 61205, Indu Fortune Fields Gardenia,

Phase 13, KPHB, Kukatpally Hyderabad- 500085,

E Mail: thimmaiahy@yahoo.go.in

Reg: No: RQP/ DMG/ AP/11/2020, Valid apro: 6/5/2030

II LOCATION AND ACCESSIBILITY

1) Applied / Lease area Details:

Compart. No.	R.F / Beat	Range	Division	Extent	Ownership/ occupancy
227	Basivipalli /	Chittoor West	Chittoor West		
	Chittapara]		Applied for Quarry Lease.

CHITTOOR

Geo Coordinates (Datum: WGS-84) for all Boundary Pillars of Applied Q.L. as per DGPS Survey Sketch:

SI. No.	Name	Latitude	Longitude	SI. No.	Name	Latitude	Longitude
1	VM-1L-7	13.08837706	79.13004399	21	VM-11	13.08620044	79.13004211
2	VZ-1	13.08825377	79.1300112	22	VZ-11	13.08623733	79.13010082
3	VM-2	13.08742034	79.13035355	23	VM-12	13.08697813	79.12967515
4	VZ-2	13.08737053	79.13030515	24	VZ-12	13.08702082	79.12973758
5	VM-3	13.08687034	79.13054965	25	VM-13	13.08782974	79.12949987
6	VZ-3	13.08682949	79.13049072	26	VZ-13	13.08780786	79.12957408
7	VM-4	13.08622991	-79.13137014	27	R-1	13.09158583	79.12679598
8	VZ-4	13.08616702	79.13133977	28	L-1	13.09154786	79.12687487
9	VM-5	13.08609106	79.13205066	29	L-2	13.0906379	79.12729208
10	VZ-5	13.08602311	79.13203653	30	R-2	13.09058892	79.12724376
11	VZ-6	13.08586198	79.13275212	31	L-3	13.09020476	79.12780826
12	VM-6	13.08590984	79.13284988	32	R-3	13.09016038	79.12777071
13	VM-7	13.08541896	79.13261159	33	L-4	13.09002421	79.12812082
14	VZ-7	13.08542754	79.13254256	34	R-4	13.08998003	79.12808773
15	VM-8	13.08491999	79.13241011	35	L-5	13.08940804	79.12903909
16	VZ-8	13.08500515	79.13237264	36	R-5	13.08937706	79.12899182
17	VM-9	13.08525255	79.13144738	37	L-6	13.088926	79.12954079
18	VZ-9	13.08531908	79.13146406	38	R-6	13.08888793	79.12950083
19	VM-10	13.08566106	79.13031198	39	R-7	13.08833002	79.12999018
20	VZ-10	13.08571339	79.13036904				

2) General Location Map Showing Applied Area and Access Routes:

The DGPS surveyed area is marked on Indian Topo Rhen No: 57/ O/4 and it is enclosed as "Location Cum Key Plan" of Plate 1. The DGPS map, showing the applied quarry lease area in Comp .No: 227 of Basynealli A.F. Chittapara Beal of Chittoor West Range and Chittoor West Division for Quarry is enclosed as Plate-1Al The applied quarry lease (Q.L.) area is a fringe area of the forest, adjacent to the revenue land of Dalavaipalle Village, Gudipala Mandal in Chittoor Disk located on Indian Topo Sheet No. 57 O/4. The applied area is located between the Latitude of 13° 05° 5:71° to 13° 05° 17.99" and Longitude of 79° 07' 46.20" to 79° 07' 58.20" on Indian Topo Sheet No. 57 O/4. The applied area can be approached by a metal road of 0.6 km from N.H.-4 i.e. from Dalavaipalle. About 533 m length and 6m width of the Forest land (0.32 Ha) has been applied for approach road purpose from revenue land to the Quarry leased area.

Nearest Village to the applied Q.L.: Dalavaipalle is located at a distance of 600 m from applied Q.L. area due North. Primary facilities like electricity, primary school, post office and Bus services are available from this village.

Mandal Headquarters: Gudipala is the Mandal Headquarters, located at a distance of 1km from the subject area on N.H-4 at a distance of 12 km from Chittoor town towards Vellore. It is the nearest place for primary health centre, Police Station and Fire Station.

District Headquarters: Chittoor is the district headquarters, located at a distance of 13 km from the applied Q.L. area. It is the nearest place Market, Higher Education, Hospitals and Railway Station.

Airport & Seaport: The nearest airport is located at Thirupati at a distance of 98km and the nearest seaport is located at Chennai 150 km at a distance of from the applied area.

PART A MIN

- 1 GENERAL DETAILS OF THE APPLIED QUARRY LEASE AREA MINING LEASE:
- a) Brief description of Topography, Plair age Pattern, Vegetation Cormate, Rainfall Data of the Area:
- i) Topography: The proposed quarry lease area. Safety zone and part of the approach road area belong to hilly terrain. Quarry lease area is elevated in the centre (384m max) and sloping towards North, South and North directions respectively of the applied Q.L. area. The subject is gradually rising towards centre of area up to 384m MSL from NW to SE direction. There is a maximum relief of 24 mts towards NW from centre of the applied Q.L. area. Due to Dolerite dyke (Black Granite) intrusion, the mining area rises to a height of 24 mts. Even though, the applied quarry lease area and the proposed approach road belong to R.F., it does not have much vegetation except scattered trees and bushes on the slopes. There are no prominent natural drainage channels within the applied area. But a seasonal watercourse is running adjacent to the applied quarry lease on NW side. The surface rain water of the area will joins to the seasonal nala and the nala join to local tanks, located at more than 1.0 km from the area on Northern side.
- ii) Drainage Pattern: There are no water bodies, like rivers, tanks, canals and reservoirs located in and around the area in the vicinity. There is no specific drainage pattern in the applied area. But the surface rain water flows through the slopes of the applied area and joins to the nala running in the area on NW sides.
- iii) Vegetation: The applied area belongs to Dry Tropical South Indian Dry Mixed Deciduous of Open Forests. The slopes of the area are covered by the vegetation like scrubs, bushes and small trees. All along the centre portion (Peak of the hill) of the applied area is formed by the Dolerite Dyke. Due to Dyke formation, the vegetation is scatter in the centre of the applied area.

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iv) Climate & Rainfall Data: The applied lease area belongs to tropical climate. The annual rainfall of the area varies from 640 mm to 720 mm.

2. GEOLOGY AND EXPLORATION:

a) Brief descriptions of Regional Geology with Reference to Location of Applied Area:

The region of the subject area belongs to Pennisular Grees of Archean Group. The Regional area forms a part of grante green stone terrain of easier part of Dharwar Craton. The green stone rocks are matter of the introduced by grantic rocks of Grey, Brown and Black varieties. In this area the grante terrain comprises banded /streaky gneiss ranging in composition from Tonalite to Grandforth Migmatitic Gneiss and Granodiorite Granite with compositional variation between GranodioriteGranite and Alkali Feldspar Granite. Among these varieties of Gneissic Granites and Dolerite Dykes are suitable for dimensional stone industry. The stratigraphy of the region is given below.

Geological Era	Geological Unit	Rock Type
Proterozoic	Closepet granite and its Equivalents Peninsular Gneiss With older Granites and Migmatites	Granite Variants Migmatites Gneisses & Granites
Archean	Schistose rocks of Greenstone Belts and its equivalents	

b) Detailed Description of Geology of the Area:

The applied Q.L. area and adjoining lands are mainly consisting of Grey Granite, belongs to Peninsular Gneissic Complex. Most of the surroundings are covered by the Grey Granite and it is exposed as sheet rock. The Dolerite Dyke is intruded along the centre of the applied area in SE-NW direction. The Dyke portion is exposed as boulders and Sheet rock of Dolerite (Black Granite). The periphery of the Dolerite dyke, Grey Granite is exposed as sporadically and most of the slopes of the applied area are covered by the soil and float material of Dolerite boulders. No shear zones or faults are noticed in this area. The Dolerite (Black Granite) dyke is well exposed, over a length of 416 m, to a maximum width of 40 m along the top of the hill portion and to a height of 24 m (max).

Soil & Scree: Red soil with float boulders of Black Granite is covering the slopes of the applied area to a thickness of 0.5m to 2.5m as shown on surface Geological Plan & Sections, enclosed as Plate-3 & Plate - 3A.

Dolerite (Black Granite): Hard and compact, Dolerite (Black Granite) is exposed along the top of the hill to a maximum height of 24 m between the RIs of 368 m to 384 m. The Black Granite is massive, fine grained, hard and compact in natureal shows dark grey in colour. Due to its colour, hardness & compactness, it is being used for outting & polishing stone industry. The Black Granite Consists of Augite and Plagiociase Pelaspar and low quantities of olivine with Iron Oxides minerals.

- i) Texture and Grain size: The rook shows uniform in grain size of small to fine grain.
- ii) Black and aesthetic beauty of the stone: Due to small & fine grain size, the rock will take good polish and gives mirror image after polish the rock.
- iii) Hardness: 6 to 6.5
- iv) Mineralogical composition: Petrologically the rock has Augite, plagioclase feldspar, clino-pyroxenes and olivine as major minerals in this rock. Apatite, Zircon and some opaque minerals constitute the minor minerals.
- v) Density/ Specific gravity: 2.75.
- vi) Water absorption Capacity: 0.15% (kg/cm2)
- vii) Porosity: 0.35
- viii) Compression Strength: 1969kg/cm² (in dry state) and tensile strength 96kg/cm². "The value given is based on the Physical tests carried out for different rocks in the laboratories of the Geological Survey of India, and published by the Organisation".
- ix) Abrasiveness: 6-5.5
- x) Permeability: 0.55%
- xi) Rock quality designation: Good RQD% between 75-90%
- c) Details of Applied Quarry lease holder:

M/s Vaishnavi Granites,
Proprietor: Smt Edavalli Akhila,
W/o Nithin Reddy, Cell: 9000352266
Sri Vasista Apurva, 501,
8-2-350, 2, Banjara Hills Road No.3,
HYDERABAD-500034

E mail: srivaishnavigranites1@gmail.com

d) Details of Prospecting Carried out:

The Black Granite, which is used for culting & polishing, is exposed to a maximum height of 24 m above the ground in the applied area. It is also seen from the adjacent workings quarries that the Granite available in this region is useful for cutting & polishing industry. So, no separate exploration was carried autom this area:

e) Surface Plan:

The topographical survey of the applied lease area was carried out and the levels are taken with reference to bench mark (319.90m), which is marked on boundary pillar No. R1, located on NW side of the subject area. Based on the levels obtained from topographical survey, the surface plan is prepared by showing the contours at 4m interval. The surface features available in the applied lease are shown on surface plan and the same is enclosed as Plate No-2 on 1: 2000 scale.

f) Surface Geological Plan:

The Geological features like the litho-units exposed in the recommended Q.L. area and its structural features are collected from the applied lease area and the same is transferred to the surface geological plan. The plan showing the geological data of the subject area is enclosed as Surface Geological Plan on 1: 2000 scale with 4m contour interval and it is numbered as Plate-3.

g) Geological Cross Sections:

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Eight Geological Cross Sections (A-A' to H-H') were drawn across the subject area at an interval of 50 m on 1:1000 scale and depicted the lithology obtained from the outcrops of this area and adjacent workings quarries. The geological cross sections are enclosed as Plate-3A.

h) Broadly indicate the future program of exploration for First Five Years: -

It is proved that the Black Granite, which is useful for cutting & polishing stone industry availability to a thickness of 24 m along the top of the hill in the applied area. So, no separate exploration is proposed for the first five years of the plan period.

i) Reserves and Resources as per UNFC Detailed Calculation of the reserves shall be stated:

The availability of Black Granite, which is useful for outling & polishing stone industry, is exposed to a maximum height of 24 m above the ground level between the RLS of 360 m -384 m. And the dyke is extending further depth from the sufface. So, the rock which is occurring up to the RL of 350 m RL in the mining area & Safety Zone is considered for proved reserves. The Geological reserves are estimated by cross sectional method by multiplying the cross-sectional area of the Black Granite zone with the influence distance of the sections. Thus the volume of the in-situ resk will be obtained. Due to weathering, joints and factored zones, the total in-situ rock reserves will not be useful for cutting & polishing stone industry. The weathered rock, small boulders / blocks with irregular shaped material will be treated as mineral waste. It is expected about 15% to 20% of useful and marketable black granite blocks can be recovered from in-situ reserves. An average recovery percentage of 17.5% is considered for estimation of Black Granite reserves and the remaining 82.5 % is considered for mineral waste. To assess the reserves of saleable B. Granite, the volume of the in-situ B. Granite is multiplied by 17.5%, the recovery percentage of saleable blocks. The reserves calculation of the Black Granite available in mine zone & safety zone is furnished in the following Table No-5.

Geological Reserves of Black Granite available in Mining & Safety Zones:

Proved Category:

Table No. 5

Category	Section	Influence Distance (m)	Sectional Area of B. Granite (m²)	Volume of In-situ B. Granite (m³)	Reserves of B. Granite (m³) @ 17.5%	Generation of Waste (m³) @82.5%
Proved	A-A'	55	350	19250	3369	15881
Reserves	B-B	50	962	48100	8418	39683
neseives	C-C	50	828	41400	7245	34155
1	D-D	50	555	27750	4856	22894
	E-E	50	526	26300	4603	21698
	F-F	50	1026	51300	8978	42323
	G-G'	50	1316	65800	11515	54285
1	H-H	81	1078	87318	15281	72037
				367218	64263	302955

Geological Reserves of Black Granite available in Mining & Safety Zones =64263 m3

j) Feasibility Report:

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The Granite, which is used for cutting and polishing industry is exposed to a height of 24 m above the ground level and it is covered by thin layer of bodiders and weathered material. The rock will be excavated by open as method from this area and it will be supplied to the cutting and polishing stone industries, which are located close of the subject area. The cutting and polishing units will he polished and the same will be supplied to the consumers, located in and outside the country. The rock is find in nature and the primary blocks will be separated with the help of wire saw fulling machine from mother rock and then the primary blocks will be cut into secondary blocks with the help of jackhammer drilling and wedge cutting. The waste generates from cutting of the blocks will be separated and it will be stocked in proposed dump yard and the saleable granite blocks will be supplied to the market. EC clearance and CFO & CFE will be obtained from MoEF & PCB respectively after getting the stage-1 proposals from the forest department. The subject area is well connected by Roads, and Railway lines. All types of modern communication system are available nearby the area.

Financial analysis per economic viability of the deposit:

The expected production cost per cubic meter of black granite production is detailed below:

Heads	Cost in Rs per m ³	
Mining	12000/-	
Wages	3000/-	
Depreciation	50/-	
Interest	50/-	
Royalty	4000/-	
Miscellaneous	100/-	
Overhead cost	100/-	
Total	19300/-	

The above cost is a very approximate, whereas due to the market condition the above shown cost may vary accordingly. The granite of this area is used for sale and there is good market available for black granite in and around A.P. Thereis no problem for marketing of black granite.

Economic Axis: The mineral occurrence is seen in and around the area from working quarries. It is also proved from adjacent quarries that the grante of this area is useful for cutting and polishing industries. So, the mining is economically giable in present market.

- K) Mineral Reserves: The geological reserves of Granite estimation is furnished under Table No-5.
- i) Mode of mining: Because, the Granite of this area is exposed along top of the mound and it is hard in nature, it will be excavated by open cast method with the help of wire-saw cutting machine and jackhammer drilling. An excavator & dumpers will be used for shifting the granite waste and granite blocks from working face.
- ii) The adjacent quarry workings revel that about 82.5% the ROM is going to be generated as waste.
- iii) Cut of Grade and ultimate pit depth: The Granite available to a depth of 34m from top of the hill is useful for cutting & polishing industry.

Non-Mineable Resources: Part of the geological reserves, estimated under table no-5 on page-8 will be blocked in safety zone and bench formation. The non-mineable reserves are estimated by cross sectional methods as furnished in the flowing tables -6A & 6B.

Proved Reserves blocking in 7.5m safety zone: Table-6A

Category	Section	Influence	Sectional Area	Volume of In-	Reserves of	Generation
		Distance	of B. Granite	Situ B. Granite	B. Granite (m³)	of Waste (m ³)
2>		(m)	(m²)	(m³)	@ 17.5%	@82.5%
Proved	A-A'	11	146	1606	281	1325
Reserves	B-B' to G-G'	0	0	0	0	0
	HH	7.75	1078	8355	1463	6892
1			Total	9961	1744	8217

Proved Reserves blocking under Safe Benches: Table-6B

			- -			
Category	Section	Influence	Sectional Area	Volume of In-situ	Reserves of	Generation
		Distance	of B. Granite	B. Granite	B. Granite (m³)	of Waste (m³)
İ	ļ	(m)	(m²)	(m³)	@ 17.5%	@82.5%
Proved	A-A'	45	146	6570	1150	5420
Reserves	B-B'	. 0	0	0	0	0
	C-C	50	50	2500	438	2063
ļ	D-D'	50	225	11250	1969	9281
	E-E'	50	236	11800	2065	9735
	F-P	50	206	10300	1803	8498
Ì	G-G	0	0	0	0 _	0
	H-H	0	0	0	0 _	O
			Total	42420	7424	34997

Black Granite Reserves blocking in safety zone & under benches = 9168 m³

Mineable Reserves of Black Gran	nite: Geological Reserves - Blocking Reserves: 64263 -
$9168 = 55095 \mathrm{m}^3$	ORECITATION OF SECTION
UNFC Classification of Reserves	s & Resources Estimation; Table-7
Classification	Quantity of Black (Granite (m³)
Total Mineral Resources (A+B) A. Mineral Reserves 1. Proved Mineable Reserves 2. Probable Mineable Reserves	64263 111 1218 122 55095 500000 55095
B. Remaining Resources 1.Feasibility Resources 2.PrefeasibilityMineral Resources 3. Measured Mineral Resources 4. Indicated Mineral Resources 5. Inferred Mineral Resources	21 CHITTO 9168 (Non-Mineable) 221&222 331 332 333
6. Possible Resources	334

Life of the Quarry:

Based on Black Granite reserves available in the area and the present market demand for B. Granite, is proposed to raise about 4000 cubic metres per year on an average. At this rate of production the expected life of the quarry is : $(55095 \text{ m}^3 / 4000\text{m}^3 = 13.77\text{yrs})$ 14 Years.

3 MINING:

A. Open Cast Mining:

i) Briefly Describe the Proposed Method for Excavation with all Design Parameters indicating DEP! on plans / sections: 9

The Black Granite which is useful for cutting a polishing incustry is exposed along the top of the hill. So, the mining activity will be carried out by opences benching method. The weathered boulders mixed with soil will be removed with the help of excavator from the surface to a thickness of about 2m and the Waste will be transported to the proposed dump yard by the dumpers. Sometimes the weathered rock from working face will be removed with the help of jackhammer drilling blasting. After removal of boulders and weathered material from the surface the granite production will be obtained by excavating three to four benches of 6m height (max) each. To cut the primary granite blocks from mother rock, wire-saw cutting machine will be used. The primary blocks will be separated from mother rock and it will cut into secondary blocks with the help of wedge cutting. While cutting the blocks about 82.5% (on average) of the material is going to be generated as solid waste, which consists of shapeless and defected material. During first five years, it is proposed to raise about 20,000 cubic metres of black granite blocks in five years at the rate of 4000 cubic metres per year on an average. In first five years about 0.9723 Ha of area will be used for mining activities. The excavations will be carried out in three to four benches of 6m height each for production. After recovered the saleable granite blocks from ROM, the shapeless and defected material is treated as mineral (solid) waste. In every year about 18860 cubic metres of granite waste i.e. about 94295 cubic metres of waste will be generated in first five years.

ii) Processing (if required):

No processing of the granite blocks will be carried out in the lease area.

iii) Drilling & Blasting:

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Drilling and blasting is required for development workings and to remove the weathered and country rock. So, the applicant is advised to get the explosive license to store the required explosives at quarry site. The blast holes will be drilled with jackhammer to a depth of 2.5 m to 3m with spacing of 1 m and burden of 1.5m. Each drill hole will be charged with low strength slurry-based explosives and ANFO of 1kgs.

iv) Indicate year-wise tentative Excavation indicating development, RCM, pit wise as in table below:

Based on present market demand for that granite and keeping in view of available reserves in the area, it is proposed to raise \$300 m³ per year in 240 working days as detailed below. The working will be carried from single pit, from NW to SE direction during 1st five years plan period.

Year Wise Development & Granite Production for 1st five Years:

a) Year Wise Development:

Table-9A

eat wise Development.		I apic-s		
Year	Bench No. & Its FRLS	Working Area in OB (m²)	Thickness of O.B. (m)	Volume Of O.B. (m³)
				3005
1st Year	1) GL-371	2003	1.5	
2 nd Year	1) GL-374	286	3	858
	2) 374-368	148	6	888
Ī	3) 368-362	70	6	420
Ī	Total			2166
3 rd Year	1) GL-374	874	3	2622
	2) 374-368	628	6	3768
ļ	3) 368-362	296	6	1776
Ì	Total			8166
4 th Year	1) GL-380	1430	2	2860
	2) 380-374	100	6	600
İ	Total			3460
5th Year	GL-380	1400	2	2800
	G. Total			19597
	Average			3919

b) Year Wise Production:

Table-9B

Year	Bench No. &	Working Area (m²)	Bench Height (m)	Volume (m³)	Production of B. Granite	Mineral Waste @
	IIS FRES	Area (III)	ricigin (m)	(,,,	@17.5% (m³)	82.5% (m³)
1 ^{si} Year	2) GL-368	2003	5	10015	1753	8262
	3) 368-362	1340	6	8040	1407	6633
	4) 362-356	800	6	4800	840	3960
	Total			22855	4000	18855
2 nd Year	1) GL-374	1600	3	4800	840	3960
	2) 374-368	1400	6	8400	1470	6930
	3) 368-362	1010	6	6060	1061	5000
	4) 362-356	600	6	3600	630	2970
	Total			22860	4001	18860
3rd Year	1) 380-374	1600	3	4800	840	3960
	2) 374-368	1282	6	7692	1346	6346
	3) 368-362	1060	6	6360	1113	5247
	4) 362-356	668	6	4008	701	3307
	Total			22860	4001	18860

Year	Bench No. &	Working	Bench	Volume	Production of	Mineral
I Cai	Its FRLS	Area (m²)	and the same of th	ः (m/)v		Waste @
	KSTIILO	Alca (III)			(m ³)	82.5% (m ³)
4th Year	1) 380-374	1430	5	8580	C 1502	7079
	2) 374-368	1160	/ <u>\$ 6/ %</u>	6960	61218	5742
	3) 368-362	790	15/ \$ 18/	4740	810	3911
	4) 362-356	430	2 6	2580	C#B2	2129
		Total	口门直到	N.967 7/8	22160	4001
Year	Bench No. &	Working	Bench	Volume	Production of	Mineral
	Its FRLS	Area (m²)	Height (m)	(m)	/ B. Granite	Waste @
	ļ l	, ,		المنتعملين لأماني	/ @17/.5% (m ³)	82.5% (m³)
5 th Year	1) 380-374	1400	6 4	\$400 <u>/</u>	1470	6930
	2)374-368	1104	6 (6624	1159	5465
	3) 368-362	802	6	4812	842	3970
	4) 362 -356	504	6	3024	529	2495
1	Total			22860	4001	18860
	G. Total				20004	94295
	Average				4001	18859

iii) Dump Management:

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The proposed mining area is consisting of weathered material, boulders mixed with soil. So, this waste material will be separated from the surface. During this plan period about 141420 m³ of waste will be generated from five years production @ 82.5%. Theyear wise waste generation particulars are furnished under table-9A & 9B. It is proposed to stack the waste on Western sides of the area, over an extent of 1518 m² in each year and 7593 m² in five years to a height of 15 to 18m. To stabilisation of the dumps a retaining wall and garland drain will be provided over a length of 640m width of 2m to cover an area of 1280 m² in five years @ 256 m² per year. The granite blocks will be supplied to the cutting & polishing units, which are located in and around A.P. State.

iv) Layout of mine workings, pits & Roads:

Mine Layout for Year-Wise Development for First Five Years Period:

The Granite, which is useful for cutting and polishing stone industries, is exposed to the surface with thin layer of overburden consisting of boulders mixed with soil and weathered material. So, the development will be carried out in overburden on the surface of the area during first five years. The waste granite, generates along with granite blocks will be separated and it will be stocked in proposed dump yard.

In every year, the overburden will be reproved to a thickness of about 1m to 2m before going for granite production from the surface) the excavations will be carried out from the surface with the help of jackhammer drilling and plasting and the biasted waste will be excavated with the help of excavator. The wasternaterial will be loaded into dumpers and the same will be transported to the proposed dump vary. The approach road will be formed to the bottom of the working pit from NE corner. From five years excavation about 94295 m³ of granite waste and 20004 m³ of granite blocks will be generated as detailed under table -9A & 9B. Due to mining, dumping and its allied activities about 1:8596 Ha of mining block will be degraded by the end of first five years as detailed under para-2 on page-21.

Year wise waste generation and Area required for dumping & Stabilisation is furnished below.

Year	Generation Of O.B. (m³)	Generation of Granite Waste (m³)	Total Waste (m³)	Dumping Area (m²)	R.W & G.D. Area (m²)	Total Area Required (m²)
1 ^{si} Year	3005	18855	21860	1457	246	1703
2 nd Year	2166	18860	21026	1402	238	1640
3 rd Year	8166	18860	27026	1802	304	2106
4th Year	3460	18860	22320	1488	250	1738
5th Year	2800	18860	21660	1444	242	1686
Total	19597	94295	113892	7593	1280	8873

v) Mine Layout for year-wise Production for First Five Years:

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It is proposed to raise about 4000 cubic metres of Black Granite blocks per year during first five years plan period on an average. In each year, it is proposed to excavate the raw material in three or four benches of 6 m height each after removal of overburden to a thickness of 1m to 2m from the surface. The workings will be started from NW side of the area, after leaving 7.5 m safety barrier from boundary line. The mother rock will be cut into primary blocks with the help of wire-saw cutting machine and line driller. The un-defected primary blocks will be split into secondary blocks with the help of jackhammer drilling and wedge cutting. While cutting the primary blocks into secondary blocks, the defected & shapeless material will be generated. This material is treated as granite waste. From second year on words, the working benches of first year pit will be advanced towards SE. Year wise working areas are shown on plan and section of plate-4. The bench wise production details of each year are given in Table-9A & 9B on page-13.

Black Granite Production:

First Year Workings: In this years, the Granite blocks will be excavated with the help of wire-saw cutting machine and line drillectron. New side of the subject area in three benches of 5 to 6m height (max) each with the loor PLS of 368, 362 & 355 m over an extent of 0.2533 Ha. Before going for granite block excavations the O.B. consisting of small and withered material will be excavated to an average thickness of 1.5m from the surface (G.L). Due to these quarry excavations about 4080 m of saleable granite blocks, 3005 of O.B. m³ and 18855 m³ of granite waste will be obtained from three workings. The waste rock will be shifted to the dump yard and the saleable blocks will be shifted to the granite industries. The proposed workings and dump yard are shown on plate-4 and bench wise production details are furnished under table-9A & 9B.

Second Year: In this year, the Granite production will be obtained by developing four benches on SE side of previous year workings between the RLS of GL-374, 374-368, 368 - 362 m & 362-356m, over an extent of 0.1886 Ha. Due to these quarry excavations about 4001 m³ of saleable granite blocks, 2166 of O.B. m³ and 18860 m³ of granite waste will be obtained. The waste rock will be shifted to the dump yard and the saleable blocks will be shifted to the granite industries. The proposed workings and dump yard are shown in plate-4. Bench wise production details are furnished in table-9A & 9B.

Third Year: In this year, the Granite production will be obtained by advancing the four working benches of second year, towards SE without changing the RLS (380-374, 374-368, 368-362 m & 362-356m) over an extent of 0.2474 Ha. Due to these quarry excavations about 4001 m³ of saleable granite blocks, 8166 of O.B. m³ and 18860 m³ of granite waste will be obtained. The waste rock will be shifted to the dump yard and the saleable blocks will be shifted to the granite industries. The proposed workings and dump yard are shown on plate-4 and bench wise production details are furnished under table-9A & 9B.

Fourth Year: In this year, the Granite production will be obtained by advancing the four working benches of third year, towards SE without changing the RLS (380-374, 374-368, 368-362 m & 362-356m) over an extent of 0.1430 Ha. Due to these quarry excavations about 4001 m³ of saleable granite blocks, 3460 of O.B. m³ and 18860 m³ of granite waste will be obtained. The waste rock will be shifted to the dump yard and the saleable blocks will be shifted to the granite industries. The proposed workings and dump yard are shown on plate-4 and bench wise production details are furnished under table-9A & 9B.

Fifth Year: In this year, the Granite production will be obtained by advancing the four working benches of fourth year, towards SE without changing the PCS (\$90-374, 374-368, 368-362 m & 362-356m) over an extent of 0.1400 Pla. Due to these quarty excevations about 4001 m³ of saleable granite blocks, 2800 of 0.B m² and 18860 m³ of granite waste will be obtained. The waste rock will be shifted to the damp yard and the saleable blocks will be shifted to the granite industries. The proposed workings and styring yard are shown on plate-4 and bench wise production details are furnished under table 9A & 9B.

Haulage and Transport of Granite Blocks Wastern 1008

The excavated waste material will be loaded into dumper with the help of excavator. The loaded material will be transported to the proposed dump yard, located on western side of the proposed lease area. The granite blocks will be loaded into hired trucks and the same will be transported to the granite industries. To achieve target production, the following machinery is used in the lease area.

The following machinery is required to get the target production:

Machinery	Quantity	Description	
Excavator	2 No	Tata Hitachi-300Lc	
Loader /JCB	1 No	4t Capacity	
Dumpers	4Nos	20 t capacity	
Compressor	2 No	120 cfm	
Line Drill Machine	1 No	10mm Pneumatic Drill	
Wire- saw cutter	1 No	60 HP	010
Jackhammers	6 Nos	RH 658	

4. MINE DRAINAGE:

- a) Minimum & Maximum Depth of Water: The bore well drilled in adjacent fields at foot hills shows the groundwater table availability at a depth of more than 60 m in rainy seasons.
- b) Maximum & Minimum Depth of Workings: The workings will go to a maximum depth of 24m from top of the hill, which is raining to a height of 24 m from ground level.
- c) Quantity and Quality of Water: Since the mine workings are restricted to 24m from top of the hill during this plan period, no surface or ground water is going to be accumulated in working pit.

- d) Regional Drainage Pattern: The subject area belongs to hilly terrain and there is no specific drainage pattern in the subject area Three is a seasonal hala flowing adjacent to the applied area on NW side. The surface ain water of this area flows through the slopes and joins to this seasonal hala.
- 5. STOCKING OF MINERAL REJCETS SUB GRADE MATERIAL AND DISPOSAL OF WASTE:

5.1 Nature of Waste and Its Rate of Yearly Generation

Due to granite quarry workings, the waste consisting of weathered material, under size and shapeless boulders mixed with soil will be generated. Apart from this overburden, the defected granite waste also will be generated. The year wise waste generation particulars for first five years of the plan period and its dumping particulars are furnished in the following table.

Year wise waste generation and Area required for dumping & Stabilisation is furnished below.

Year	Generation Of O.B. (m³)	Generation of Granite Waste (m³)	Total Waste (m³)	Dumping Area (m²)	R.W & G.D. Area (m²)	Total Area Required (m²)
1st Year	3005	18855	21860	1457	246	1703
2 nd Year	2166	18860	21026	1402	238	1640
3 rd Year	8166	18860	27026	1802	304	2106
4th Year	3460	18860	22320	1488	250	1738
5 th Year	2800	18860	21660	1444	242	1686
Total	19597	94295	113892	7593	1280	8873

5.2 Selection of Dumping Site:

About 19597 m³ of overburden consisting of weathered and Shapeless boulders mixed with soil and 94295 m³ of country rock will be generated in this plan period. The total waste of 113892 m³ will be stocked over an extent of 7593 m² on western side of area to a height of 15 to 18 m as shown on plate-4.

5.3 Method of Dumping and Maximum Height and Spread of Dumping:

The waste rock mixed with soil and the granite waste will be stocked over an extent of 7593 m² and to a height of 15 to 18m. The proposed waste dump yard is shown on plate-4.

5.4 Precautions for Confinement of Dumps to Prevent Pollution of Surface water bodies/courses:

The waste dump will be stabilised with the retaining wall and sarland drain to confinement from surface water bodies on western & eastern side of the dumps, over a length of 640m and to a width of 2m over an extent of 1280 m² in five years. The year wise details are furnished in the table furnished under parts 511.

5.5 Arrangement of Separate Stacking of Sub Glade Minerals:

The waste rock mixed with top so and gradite waste will be stocked in same proposed dump yard.

CHITTOOK

6. USE OF MINERALS & MINERAL REJECTS.

a) The black granite of the area will be supplied to the cutting and polishing industries. The granite blocks will be cut in to slabs and monuments. The polished slabs will be used for flooring, wall panelling, table tops and other construction field. The monuments will be used for decorative purpose.

7. PROCESSING OF ROM & MINERAL REJECT:

The in-situ material excavated from the lease area will be separated as saleable granite blocks and granite waste. The saleable blocks will be supplied to the cutting and polishing industries and the granite waste will be stocked at proposed dump yard.

8. OTHERS

a) Site Services:

The site services like office, first aid and rest shed will be provided over a small extent, in temporarily constructed shed on NW side of the area. The location of the proposed site services are shown on plate-4.

b) Employment Potential:

The mine working will be carried out under the supervision of a mine's manager, having a mining engineering certificate under the provisions of MCDR 1988. The following manpower will be employed to carry out the mining activity in the lease area.

SI. No.	Particulars	Total No's
1	Mines Manager	1
3	Operators	12
4	Semi-Skilled	6
5	Un-Skilled	6
6	Office staff & Security	5
	Grand Total	30Nos

ART-B

PROGRESSIVE MINE CLOSURE PLAN

- Environment Base line information.
- a) Existing Land Use Pattern: The subject area is belongs to Reserved Forest. The surrounding lands, located on NE side Wiftin 500m radius are mainly used for agriculture to grow dry crops. The forest land is continuing towards Northern, South & West from the applied lease area. The existing land use pattern of the recommended lease area is detailed below.

Description	Extent of Area is used (Ha)
Mining	Nil_
Waste dump	Nii
Road & Infrastructure	· Nil
Mineral Stock	Nil
Agriculture	Nil
Forest Land	4.82
Total	4.82 Ha

- b) Water Regime: There are no water bodies, like rivers, tanks, canals and reservoirs in the vicinity of the area. There is no specific drainage pattern in the applied area. But the rainwater flows through the slops of the area and it joins to seasonal nala, which is running on NW side.
- c) Human Settlements: Within the recommended lease area, there are no villages or human settlements located. There is no question of any evacuation or resettlement of people elsewhere. Workers come from the village, which is located at more than 1 Km. The villages located within 5km radius from the subject area are shown on plate-1.
- d) Public buildings, sanctuaries, eco-sensitive areas etc: There are no publicbuildings, monuments, historic importance places & any sanctuary within or in the vicinity of the area.

2 Impact Assessment:

a) Land Degradation: Land use pattery of prining block in hist live years' plan period is detailed below.

Mining Activ		Area Covers in Hectors
Mining Area (including Internal Roads &	emporar y sije Services)	0.9728
Waste Dump Area (including Retaining V	Val & Garland Drain	0.9878
Total Area	A STORE OF THE STO	1.8596 Ha

b) Air quality: The mining activity in this area is situated at safe distance from the villages which are likely to be affected. However air quality will be maintained within the Standards of National Ambient Air Quality (NAAQS) as detailed below.

SI. No	Pollutant	Level
1	SO₂	120ug/m³
2	NO ₂	120ug/m³
3	Suspended Particulate Matter (SPM)	500ug/m³
4	Respirable Particulate Matter (RPM) (size<10um)	150ug/m³
5	CO=5mg/m³	5mg/m ³
6	Pb	1.5ug/m³

- c) Water Quality: There is no liquid waste discharge from this mining activity which is likely to be polluted the water. The rainwater flow the slope of the area and joins to seasonal nala, located in NW side of the area.
- d) Noise Levels: The mining will be carried out with the help drilling, blasting (occasionally) and excavator. So, there are chances for noise generations and the noise levels will be maintained within the permissible limits as detailed below.

Permissible noise exposure for different period of time is given below:

SI. No	Duration per day (Hrs)	Sound level dBA
31. 110	Duration per day (ms)	200110 level GDV
1	1/8	110
2	1/4	110
3	1/2	105
4	1	100
5	2	95
6	4	90
7	_ 8	85
8	16	80

- e) Vibration Levels: The mining activity will be catried out with the help of drilling and blasting (occasionally). So, there are chances or ground vibrations. Since there are no permanent structures in the vicinity of the area, there will not be any impact due to vibrations.
- f) Water Regime: Since the mining activity with a carried out up to a depth of 24 m from top of the hill, no water regime is disturbed. The water table is available at a depth of more than 60 m from surface at foothills of the applied area.
- g) Acid Mine Drainage: No acid water will be discharged from mine workings.
- h) Surface Subsidence: The workings will be carried out to a depth of 24m (Max) from top of the hill. So, there are no chances for surface subsidence due to this mining activity.
- i) Socio-Economics: The villages falling within the buffer zone are mainly depending upon agriculture. There will be no adverse effect on their socio- economic environment besides; mining gives additional income to the labourers.
- j) Historical monuments etc.: There are no historical monuments or historical importance places within or in the vicinity the lease area.
- k) Bio-Diversity: The applied lease area belongs to stony waste, located in the forest and it does not consist of much flora. But the slopes are covered by the moderate plants. There is no report on existing of any wild animals in the area.
- 3 Progressive Reclamation Plan: Details of mined out area and its reclamation is detailed below.
- i) Mined-Out Land: By the end of first five years plan period about 0.9723 Ha of mining block will be used for mining including for site services & internal roads. In balance area of mining block about 0.8873 Ha will be used for waste dumping including retaining wall and garland drain. By the end of the life of the mine about 2.1248 Ha will be used for mining activity and 1.5752 Ha is used for dumping purpose. No backfilling is proposed in this plan period because the mineral available at bottom, to be excavated in next scheme period. The land use pattern for first five years plan period and remaining life of the mine is detailed below.

Detailed component wise breakup and land use pattern for Life of Mine;

		Committee of the Commit	14011	
SI. No.	Head	entive lease weriod (Ha.)	Porest area required for 1st 5 year plan period (He.))	Total area remains unutilized after 1 st 5 years (Ha.)
1	2	3	4	5 (3-4)
1	Area under Mining (which includes small softion of area for site services like first aid etc and internal roads which will be in temporary in nature and shitted / made as per the convenient)	CHITTOOR	1st Year: 0.2533 2nd Year: 0.1886 3nd Year: 0.2474 4th fear: 0.1430 5th Year: 0.1400 Total: 0.9723 ha	1.1525 ha
2	Area for Waste Dumping (which includes Retaining wall & Garland Drain)	1.5752 ha	0.8873 ha	0.6879 ha
3	Mineral Storage	00	00	00
4	Approach Road to Mining Block	0.32 ha	0.32 ha	0
5	Railways	0	0	0
6	Tailing Pond	0	0	0
7	7.5 mtr safety zone around Mining Block	0.80 ha	0.80 ha	0
	Grand Total	4.82 ha	2.9796 ha	1.8404 ha

In case of Abandoned Quarries / Pits, proposal for uses Reservoir, size, water holding capacity and its Utilization: During this life period, the quarry workings will cover an area of 2.1248 Ha to a max. depth of 34 m from top of the hill. The Dumps will cover an area of 1.5752 ha. Because, the mineral available at the bottom of the working pit will be excavated in 2nd & 3rd five years lease period.

Plantation: As per standard norms an extent of 0.80 Ha has been earmarked for safety zone purpose (i.e. 7.5m around the mining block). During this plan period, the plantation and regeneration activity will be taken up in safety zone area of 0.80 Ha under the supervision of State Forest Department.

ii) Topsoil Management: The weathered rock mixed with soil is occurring in this area. This type of waste will be stacked separately in this plan period and it will be used for backfilling at the end of the life of the mine.

- iii) Tailings Dam Management: There are no tailing dams located in and around the area.
- iv) Disaster Management and Risk Assessment: To mitigate the emergency, planning is the first & four most thing, i.e. recognizing the accident or possible, assessing the consequences of such possible accidents and deciding on emergency planning/procedures in advance both on site & off site that would necessary to be implemented the event of emergency without any delay and opposion.

Proper bench design in mines and observing safety measures for transportation, storage, handling of explosives & fuels, etc. good maintenance of vehicles, roads, fire prevention measures shall go in preventing disaster/accidents.

Mining shall be carried out as per GCDR 1999 & Rules and regulations applicable the project in charge is having a mobile communication for quick intimation of information if need arises.

The workmen in the project are periodically trained at group VT center for proper safety training as per the DGMS circulars.

The management is committed to identify the possible causes for potential disaster and draw a code of emergency measures and procedures to deal with such disasters, which is otherwise also advised by DGMS through their Circulars.

The mine is having good communication like telephone & mobile facility. In case of any minor/major accidents within the mine, the same will be communicated to the Agent by the Mines Manager and intern he will inform to the Revenue Authorities, Police, Fire Department, DGMS etc for action.

A vehicle is kept all the time at the mine site for conveyance.

At mine level first aid will be provided and person(s) shall be shifted to District Hospital at Chittoor which is well equipped, which is about 16 Km from mine site as per the requirement.

Mines Manager is the person responsible of the disaster management and if any disaster occurs in the mine.

v) Care and maintenance during temporary discontinuance: The applicant will take
proper care and maintenance during temporary discontinuance of mining operations.

Item	Details	Proposed	Actual	Remarks
Dump Management	Area afforested (h) No. of saplings planted currulative No of plants cost including valch and care during the year	Mp: plantation is proposed on waste will be used for backfilling at the end of the life of the mine je. after 14 y.	Nil	
Management of Worked out Benches	Area available for rehabilitation (specify) No of saplings plantic in the year. Cumulative no of plants. Any other method of rehabilitation (specify) Cost including watch and care during the year.	No mined alea will be formed in 15 live years. Part of the pit will be backfilled at the end of the file of mine & remaining pits will be used	Nil	
Reclamation & Rehabilitation by back filling	Void available for Backfilling (L x B x D) pit wise Void filled by waste/tailings. Afforestation on the backfilled area. Rehabilitation by making water reservoir Any other means.		Nil	•••
Rehabilitation of waste Land within the lease	Area available(ha) Area rehabilitated Method of rehabilitation	No waste land is available in this lease area. Plantation will take up in 7.5m safety barrier.	0.80 ha area will be Planted in five years.	

vi) Financial Assurance:

As per the G. O.Ms. No. 53, Dt: 27-02-2019, the financial assurance to be submitted to the concern ADMG in the form of Bank Guarantee from a Nationalized Scheduled Bank, to a minimum amount of rupees fifty thousand for the quarry lease granted below 5.000 Ha and rupees ten thousand per Hect or part thereof for the quarry lease granted 5.000 Hects and above. Since the applied is only 4.82 ha, the Bank Guarantee will be submitted to the ADMG, Chittoor for minimum amount of Rs50,000/- at the time of execution of the quarry lease.

For M/s Sri Vaishnavi Granites

Aldi la

Signature of the Applicant

Signature of the RQP

(Y.THIMMAIAH) (RQP/DMG/AP/11/2020)

The Mining Plan / Schems is Approved subject to the conditions & stipulations indicated in

No: /22/anonp/BG/CTR/2022

Date. 27/01/2022

APPROVED

eputy Director of Mines & Gaalugy

Chittoor

ANNEXURE-I

GOVERNMENT OF ANDHRA PRADESH FORM "P" Application of Operaty Lease for Contrile

	Application of Court	X	
	120	-	Duted 07th September, 2019
Recei On_	ved at	é	
Initia	of the receiving officer		
	ector of Mines & Geology, patnam, VIJAYAWADA.	3.	EOVID R.
Sir. 1. Frequ	(Through the Assistant Director	-	CHITICON
-	- ·		25,000/- being the fee in respect of this application
			5-a) of rule 12 vide Challan No.31144883202019,
			2019, dated 07-09-2019 at State Bank of India,
	Chittoor		
2. The r	equired particulars are given below:		
i.	Name of the Applicant with complete address and status of the Applicant	:	M/s. SRI VAISHNAVI GRANITES, Prop: Smt EDAVALLI AKHILA, W/o. NITHIN REDDY, Sri Vasista Apurva, 501, #8-2-350, 2, Banjara Hills Road No.3, Opp: MJIT Green Valley, Banjara Hills, HYDERABAD – 500034 (Telangana), PAN No.AAWPE1191L, A-;55214895399; Cell No: 9000352266. Email :- nithinreddybs@gmail.com
ii.	Is the applicant a private individual/co- operative/ Firm/ Association/ Private Sector undertaking /Joint Sector under taking or any other.	:	Firm
iii.	In case applicant is:		Indian
a.	An individual, his Nationality, Qualification and experience related to quarrying.	:	Does not arise
ზ.		:	Does not arise
c.	A firm or association, the Nationality of all the partners of the firm or members of the association	:	Does not arise
d.			Does not arise
	registration		Contd2

Profession or nature of business of the applicant Granite Quarrying and Sales 3.

Particulars of documents appended 4.

Mineral Dues Clearance Certific

Since the applicant ving any arrears to

Affidavit in lieu of Mine al Certificate, subject to the pr dues clearance certificate with in the days of making the application

c. Affidavit when not holding any

Affidavit enclosed

Mineral which the applicant intends to quarry 5.

Black Grante

Period for which quarry lease is required 6.

4.900 Hectares Extent of the area, for which quarry lease is : 7. required

Details of the area in respect of which quarry lease : 8. is required

DISTRICT	MANDAL	VILLAGE	C.NO.	AREA
CHITTOOR	GUDIPALA	Vengamanayunikandiga R.F., Chittoor West Division, Chittapara Beat	227	4.900

CHIT

Brief description of the area with particulars reference to the following

Does the applicant have surface rights over the : Forest Land area for which is making an application for grant of quarry lease

If not, has he obtained the consent of the owner, : Forest Land and the occupier of the land for undertaking quarrying operation

A copy of village map which is not in less scale : 10. a. than village map showing the area applied and situation of the area in respect of natural features such as streams or lakes.

Forest Land Sketch to scale with the particulars enclosed

In the case of village area the name of the village, : khasra number, the area in Heet, of each field or part hereof applied for

Vengamanayunikandiga R.F, Chittoor West Division, Gudipala Mandal, C.No: 227, Chittoor District Extent: 4,900 hectares.

Contd...3

then the following particulars be oven the following particular by the fol

11. In case the area applied for this more forest then the following pariculars are to be given

a. Forest Division Block and Range

Chittagor West Division

b. Legal Statues of the Purest (namely reserved, protected, unclassified classified

Sa ttour West Range Vorgamanayunikandiga R.F

12. Particulars of the area mineral wise in each state duly suproved by an affidavit for which the applicant and any person joint in interest 4th Juin

a. Already holds under quarry case

Affidavit Submitted

b. Has already applied for, but not granted

Affidavit Submitted

c. Being applied for simultaneously

CHILLOWA

13. Nature of Joint in interest if any

14. a. Does the applicant hold a prospecting: licence over the area mentioned at item.9 above.? If so, give its numbers and date of grant and the date when it is due to expire

NO

b. Has the applicant carried out the prospecting : operation over the area under P.L and send his report to the State Govt. if not, state reasons for not doing so

Does not arise

c. Nature of the land chosen for dumping over : burden/waste and failings (that is type of land whether agricultural, grazing land, barren, saline land etc.,) and whether proposed site has been shown on the mine working plan. Give also the extent of area in hectares set apart for dumping of waste and failings

Within the leased area.

15. A Report giving the details of prospecting carried out in the area together with assessment of the ore reserves, geological plans, results of chemical analysis of the representative samples and bore holes and love.

 Manner in which the Mineral raised is to be utilized

 i. If for captive use, the location of plant and industry. For sale

ii. For sale to indigenous consumption

Contd.....4

- b. If for export to foreign countries
 - i. Names of the countries to which it is likely to be exported where the name being setup on 100% export oriented tied up basis.
 - ii. Whether Minerals will be ex ortal in raw form or after processing indicate the state of processing whether intermediate state of final of the end product.
- c. If it is to be used with in the country, indicate the industries in which it would be used. Whether it will be supplied in raw form or after processing.
- i. Financial resources of the applicant
 - ii. Anticipated yearly financial investments: during the Course of quarry construction and aggregate investment upto the state of commencement of commercial production.
- 18. The application form should be accompanied by a statement of the salient features of the scheme of quarrying. This should be generally on the lines of the project at a glance given in a quarrying feasibility report including features relating to the protection of environment.

Self investment

Rs.20,00,000-00

Prospecting report will be submitted within a year

1 / do hereby declare that the particulars furnished above are correct and 1 am ready to furnis other details including accurate plans and security deposit as may be required by you.

Yours faithfully,

For M/s. Sri Vaishnavi Granites,

partible.

(EDAVALLI AKHII.A)
Proprietrix

Note

Place: Chittoor
Date: 07-09-2019

- If the application is signed by any authorized agent of the applicant then the power of attorne should be attached.
- 2. The application should relate to one compact area only except when the application for Q.L i an area already held under P.L by the applicant.



Challan No. 31144883282919

Treasury/PAO Code:1102

CFMS Transaction ID: Major Head:

Sub-Major Head

Mineral Concession Fees, Rents and royalties

102 00

Not Applicable

Group Sub-Head: Sub-Head:

81

Detailed Head: Sub-Detailed Head:

Charged/Voted: Hon-Contingency/Contingency:

12500.00

Amount in words Rs:

Amount Rs:

Twelve thousand five hundred only

APPLICATION FEE AND SURVEY CHARGES

Remitter's Name & Address

SRI VAISHNAVI GRANITES

No.501, # 8-2-350, 2, Benjera Hills, Road No.3, Hyderatrod

DDO Code:

11021307001

ADM INS.GEO, CHITTOOR

Bank Reference Number:

Payment Transaction Successful

CPU4954481

Payment Date:

07/09/2018

Received Ra 12500.00

Note: This Chattan does not need enfacement of the treasury



Non-Contingency/Contingency: Amount Ra:

Charged/Voted:

CFMS Transaction

Minor Head: Group Sub-Head:

Amount in words Rs:

One takh twenty five thousand only

Purpose

DEPOSIT FEE

Remitter's Name & Address;

SRI VAISHINAVI GRANITES

501, #8-2-350. 2, Banjara Hitts, Road No.3, Hyderabad

DDG Code:

11021307001

ADM MS.GEO. CHITTOOR

Bank Reference Number:

Payment Transaction Successful

CPU4985297

Payment Date:

07/09/2019

Received Rs. 125000.00

Noto:This Chattan does not need enfacement of the treasury



Sold To L. K. Miner Property Sold To L. K. Miner Property Whom Sold To

80AA 127658

S.E. ABDUL KADHAR,
LICENCED STAMP VENDOP
L.No; 10-11-012/2012
R.No: 10-11-013/2018
#28-445, Opp: Hamza Mosque,
Ganganapaili, Chittoor-517001.
Cell: 8801646354

AFFIDAVIT

I, EDAVALLI AKHILA, W/o. Nithin Reddy aged about 29 years. Propts: M/s. Sri Vaishnavi Granites, residing at Sri Vasista Apurva, 501, #8-2-350, 2, Banjara Hills Road No.3, Opp: MIIT Green Valley, Banjara Hills, Hyderabad, Telangana - 500034 do here by solemnly affirm and state as follows

Il state that I do not possess any Mining leases, Prospecting Licences or any Quarry leases anywhere in the state of Andhra Pradesh.

As such I am not having any Mineral revenue to the State Government as well as central Government in my name.

This affidavit is filed in place of Mineral Revenue Clearance Certificate required under A.P.M.M.C.Rules, 1966

For M/s. Sri Vaishnavi Granites

(Edavaili Akhila) Proprietrix

The deponent has swoon at the deponent has been deponent has swoon at the deponent has swoon at

Place: Chittoor .

Date: 07-09-2019

G.R.GIRIDHARAN, M.COM., BL ADVOCATE & NOTARY GOMS. No: 404-S. No: 114 #10-297, D.I. Road CHITTOOR - 517001 (A.P.)



I am Indian National by Birth

I are newly entering in the Mining field

As such I am not having any Mining leases / Quarry leases anywhere in the State of Andhra Pradesh.

As such I am not having any Income Tax dues to the Government of Andhra Pradesh or Central Government of India.

Now I am filling this affidavit in the place of ITCC as required under APMMC Rules, 1966.

I take oath and declare that the facts stated above true and correct to the best of my knowledge, belief and I am not concealed or misrepresented the facts mentioned in the affidavits

Place: Chittoor . Date: 07-09-2019 For M/s. Srt Valshnavi Granites

Oktile. (Edavalli Akhila) Proprietrix

The deponent has swern and signed before me on this day of 07th September, 2019

G.R.GIRIDHARAN, M.COM., BL ADVOCATE & NOTARY GOMS, No: 404-S. No: 114 #10-297, D.I. Road CHITTOOR - 517001 (A.P.)

ANNEXURE - I

GOVERNMENT OF ANDITO PRADESH DEPARTMENTS OF MINES AND OSOLOGY

From

Sri K.L.V Prasad, M.Sc., M. Felis, Deputy Director of Mines & Globosy, CHITTOOR.

W.S. Vaishnavi Granites, Ploft's ent.Edavalli Akhila, Si Visitti Apurva, 501, 8-7 389, Aanjara Hills Road, No.S. Viserabad-500034.

Sir,

NE 262 NAP BG/CTR/2011, H: 15/10-2011

Sub: Mines a Minerale Charlet Burning Plan filed by M/s.Sri Vaishnavi Graniter Proptx: 304, Eravall White for Black Granite over an extent of 4.820 Hictares in Comparament No.227 of Basavapalli RF, Chittapara Beat of Octoor West Business, Gudipala Mandal in Chittoor District Approved - Regarding.

Ref: 1. Memo No.2038/D13-1/2020, dated:09:08.2021 of the Director of Mines and Geology, Ibrahimpatham.

Draft Mining Plan submitted on 13.09.2021 filed by M/s.Sri Valshnavi Granites, Proptx:Smt.Edavalli Akhila.

Inspection report submitted by this office Technical Staff.
 This Office Letter No.2629/MP/BG/CTR/2021, dt;20.10.2021.

Letter dated:21.10.2021 along with 5 sets of fair Mining Plan from the applicant/RQP.

In exercise of the powers conferred by the Government of Andhra Pradesh, through the reference 1st cited. I hereby approve the Mining Plan for the period of five (05) years in respect of application for Black Granite over an extent of 4.820 Hectares in Compartment No.227 of Basavapalli RF, Chittapara Beat of Chittoor West Division, Gudipala Mandal in Chittoor District filed by M/s.Sri Vaishnavi Granites, Proptx:Smt.Edavalli Akhila under Rule 12 of Granite Conservation Development Rules, 1999. This approval is subject to the following conditions.

- This Mining Plan is approved without prejudice to any other laws applicable to the quarry lease from time to time whether such laws are made by the Central Gavernment, State Government or any other authority.
- It is clarified that this approval of the Mining Plan does not in any way imply the approval of the Government in terms of any other provisions of the Mines and Minerals (Development and Regulation) Amendment Act, 2015 and any other laws including the Forest Conservation Act, 1980 and APMMC Rules, 1966.
- It is further clarified that the approval of the mining plan is subject to the provisions of the Forest Conservation Act, 1980 and Forest conservation rules, 2003 and other relevant statues, orders and guidelines as may be applicable to the lease area from time to time.
- 4. This office has not undertaken verification of the quarry lease boundary on the ground and does not undertake any responsibility regarding correctness of the boundaries of the lease hold should on the ground with reference to the lease map and other plans furnished by the applicant.

Cont..2

- 5. The Q.L. area is as shown on the statutory plans by the applicant is certified by the competent authority with GPS readings of the boundary points of the lease and this office has not under taken the grounds verification of the quarry lease boundary and policy on the ground.
- 6. The approval authority does not owe responsibility with retard to recovery factor of Black Granius and assessment of reserves and erroneous certification made by the R.Q.P. if box since the evaluation is done on nardom basis.
- 7. The Mining Plan is approved the tree strictly agnering to the relevant Regulations of MMR, 1961 and obligation performance from the Director General Mines Safety whenever and wherever it is required.
- 8. The applicant/lessee shall safes and the structures, public buildings, roads, railway line, electric line and water podies exists if any as per regulations 109 & 127 of MMR, 1961.
- The approval authority does not owe responsibility with regard to erroneous certification made by the R.Q.P if any and approval is tentative subject to modification of new findings at a later date as per the provisions of Rules inforce, since the evaluation is done on random basis.
- 10. The proposals contained in the approved Mining Plan shall be applicable from the date of execution of the lease and for the mining activities to be carried out within the lease hold area as per the approved mining plan only.

If anything is found to be concealed as required by the Mines Act in the contents of the approved Mining Plan and the proposal for rectification has not been made or if at later stage the information furnished in the document to be incorrect or misrepresentation of facts, the approval shall be revoked with immediate effect.

NB: This approval become null and void if it found grossly inequitable, made under a mistake of fact, owing to the mis-representation, fraud or in excess of authority. The applicant is not liable to claim any lease held rights till the execution of the lease deed.

Encl: (2 copies of A.M.P.)

Deputy Director of Mines & Geology, CHITTOOR.

Yours faithfully,

Copy submitted to:

- 1) The Director of Mines & Geology, Ibrahimpatnam for favour of kind information.
- 2) The Regional Controller of Mines, IBM, Sultan Bazar, Hyderabad for information.
- 3) The Director of Mines Safety, Hyderabad for favour of kind information.

Copy to the Asst. Director of Mines & Geology, Chittoor along with A.M.P and if any variations noticed in the A.M.P the same shall be brought to the notice of the Undersigned immediately for taking further necessary action.



1) Picture shows the contact zone between the Grey Granite and Black Granite in Comp. No.277.



2) Picture shows the sheet rock of Black Granite exposed on top of the hill, located in Comp. No.277.



 Picture shows the Boulders of Black Granite exposed on top of the hill, located in Comp. No.277 of Basivipalli R.F, Chittapara Beat of Chittoor West Range and Chittoor West Division, A.P..A/o M/s Sri Vaishnavi Granites. Pictures of the boundary pillars erected to the applied Q.L. area of M/s Sri Vaishnavi Granites for Black Granite in Comp. No. 277 of Basivipalli R.F. Chittapara Beat of Chittopr West Range & Division, A.P.









GOVERNMENT OF ANDHRAPRADESH DEPARTMENT OF MINES AND GEOLOGY

AS QUALITY OF REGISTRATION AS QUALITY OF PERSON TO PREPARE MILLING PLAN

[Under Rule 14(2) of Granite Causes of by and Development Rules 1999]

Sri Y. Thimmaiah S/o Sri.Y. Lingappa, FND 1203, Indu Fortune Fields Gardenia KPHB-13th Phase, Hi-tech City – JNTU-Road, Hyderabad-500085. whose photograph is affixed herein above, having given evidence of his qualification and experience is hereby granted recognition under rule 14(3) of Granite Conservation & Development Rules, 1999 as Qualified Person to prepare Mining Plans/ Schemes.

Registration Number is:

RQP/DMG/AP/11/2020

This Recognition is valid for a period of 10 years with effect from 07.05.2020 and valid upto 06.05.2030.

This certificate will liable to be withdrawn/cancelled in the event of furnishing the wrong information /documents in the Mining Plan submitted by him.

Place: Ibrahimpatnam Date::10.07.2020.

Director of Mines & Geology















